

This Listing of Claims will replace all prior versions, and listings of claims in this application.

Amendments to the claims:

Claim 1 (original) A method for making a chimeric ungulate comprising:

- (a) introducing an ungulate embryonic stem cell that has a first genetic complement into a recipient embryo of the same species as the embryonic stem cell, said recipient having a second genetic complement, to form a chimeric ungulate embryo; and
- (b) placing the chimeric ungulate embryo in an environment suitable for the completion of development to form a chimeric ungulate.

Claim 2 (original) The method of claim 1, within the ungulate embryonic stem cell is pluripotent.

Claim 3 (original) The method of claim 2, wherein the ungulate embryonic stem cell is totipotent.

Claim 4 (original) The method of claim 1, wherein the embryonic stem cell is introduced into the embryo at a pre-implantation stage.

Claim 5 (original) The method of claim 4, wherein the pre-implantation stage is the blastocyst stage.

Claim 6 (original) The method of claim 1, wherein the embryonic stem cell is derived from a first breed of ungulate and the recipient embryo is derived from a second breed of the same species as the first breed.

Claim 7 (previously canceled)

Claim 8 (previously canceled)

Claim 9 (original) The method of claim 1, wherein the first genetic complement is different from the second genetic complement.

Claim 10 (original) The method of claim 9, wherein the first genetic complement comprises an exogenous nucleotide sequence stably integrated into the genetic complement of the embryonic stem cell.

Claim 11 (original) The method of claim 10, wherein the first genetic complement comprises a nucleotide sequence capable of being expressed to provide human Factor IX in recoverable form from the chimeric ungulate.

Claim 12 (original) The method of claim 10, wherein the first genetic complement comprises a nucleotide sequence encoding a protein selected from the group consisting of human blood proteins, human hormones, human growth factors, human cytokines, human enzymes human hormone receptors, human binding proteins, antigens, translation factors, transcription factors, onco-proteins, protooncoproteins, human milk proteins, and human muscle proteins.

Claim 13 (previously canceled)

Claim 14 (previously withdrawn)

Claim 15 (canceled)

Claim 16 (canceled).

Claim 17 (canceled)

Claim 18 (canceled)

Claim 19 (canceled)

Claim 20 (canceled)

Claim 21 (previously canceled)

Claims 22-77 (previously withdrawn)

Claims 78-79 (previously canceled)